

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)

Serial Number (Optional)  
SUW-007.01(22135-701)

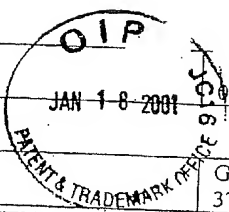
Applicant  
H.R. Halperin et al.

Filing Date  
October 29, 1999

Application Number  
09/428,990

Group Art Unit  
3737

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ROD	AA 4,431,005	02/14/84	McCormick	128	656	05/07/81
	AB 4,445,501	05/01/84	Bresler	128	1.5	05/07/81
	AC 4,572,198	02/25/86	Codrington	128	653	06/18/84
	AD 4,643,186	02/17/87	Rosen et al.	128	303.1	10/30/85
	AE 4,672,972	06/16/87	Berke	128	653	09/10/86
	AF 4,754,752	07/05/88	Ginsburg et al.	128	303.12	07/27/87
	AG 4,757,820	07/19/88	Itoh	128	660	03/12/86
	AH 4,766,381	08/23/88	Conturo et al.	324	309	08/12/87
	AM 4,813,429	03/29/89	Eshel et al.	128	736	05/05/87
	AN 4,823,812	04/25/89	Eshel et al.	128	804	05/05/87
	AO 4,832,023	05/23/89	Murphy-Chutorian et al.	128	303	06/03/87
	AR 4,932,411	06/12/90	Fritschy et al.	128	653	04/18/86
	AS 4,960,106	10/02/90	Kubokawa	128	6	04/27/88
	AT 5,019,075	05/28/91	Spears et al.	606	7	04/31/90
	AW 5,095,911	03/17/92	Pomeranz	128	662.06	05/18/90
	AX 5,099,208	03/24/92	Fitzpatrick et al.	324	312	10/05/89
	AY 5,167,233	12/01/92	Eberle et al.	128	662.06	01/07/91
	BA 5,190,046	03/02/93	Shturman	128	662.06	05/01/92
	BB 5,211,165	05/18/93	Dumoulin et al.	128	653.1	09/03/91
	BC 5,217,010	06/08/93	Tsitlik et al.	128	419 PG	05/28/91
	BF 5,271,400	12/21/93	Dumoulin et al.	128	653.2	04/01/92
	BI 5,307,808	05/03/94	Dumoulin et al.	128	653.2	04/01/92
	BJ 5,307,814	05/03/94	Kressel et al.	128	653.5	09/17/91
	BK 5,318,025	06/07/94	Dumoulin et al.	128	653.200	04/01/92
	BL 5,323,778	06/28/94	Kandarpa et al.	128	653.2	11/05/91
	BM 5,348,010	09/20/94	Schnall et al.	128	653.2	09/24/92
✓	BN 5,352,979	10/04/94	Conturo	324	307	08/07/92

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20	BP	5,358,515	10/25/94	Hürter et al.	607	101	08/16/90
	BQ	5,365,928	11/22/94	Rhinehart et al.	128	653.5	11/25/92
	BR	5,370,644	12/06/94	Langberg	606	33	07/16/93
	BU	5,400,787	03/28/95	Marandos	128	653.5	11/24/93
	BV	5,413,104	05/09/95	Buijs et al.	128	653.5	11/09/93
	BW	5,419,325	05/30/95	Dumoulin et al.	128	653.2	06/23/94
	BZ	5,437,277	08/01/95	Dumoulin et al.	128	653.1	02/14/94
	CA	5,443,066	08/22/95	Dumoulin et al.	128	653.1	09/02/94
	CB	5,443,489	08/22/95	Ben-Haim	607	115	09/23/94
	CC	5,447,156	09/05/95	Dumoulin et al.	128	653.2	04/04/94
	CD	5,451,232	09/19/95	Rhinehart et al.	606	192	10/05/93
	CE	5,462,055	10/31/95	Casey et al.	128	653.5	08/23/94
	CG	5,476,095	12/19/95	Schnall et al.	128	653.2	03/01/94
	CH	5,498,261	03/12/96	Strul	606	29	12/20/91
	CI	5,507,743	04/16/96	Edwards et al.	606	41	08/16/94
	CJ	5,512,825	04/30/96	Atalar et al.	324	309.2	11/25/94
	CM	5,540,679	07/30/96	Fram et al.	606	27	02/01/94
	CN	5,558,093	09/24/96	Pomeranz	128	660.03	03/02/95
	CO	5,578,008	11/26/96	Hara	604	96	06/14/93
	CP	5,588,432	12/31/96	Crowley	128	660.03	07/10/95
	CS	5,623,241	04/22/97	Minkoff	335	296	04/17/95
	CU	5,682,897	11/04/97	Pomeranz	128	662.06	09/12/96
	CV	5,699,801	12/23/97	Atalar et al.	128	653.2	06/01/95
	CW	5,715,825	02/10/98	Crowley	128	602.06	06/10/96
	CZ	5,775,338	07/07/98	Hastings	128	898	01/10/97
	DA	5,792,055	08/11/98	McKinnon	600	410	11/19/96
	DC	5,840,031	11/24/98	Crowley	600	440	06/07/95
	DD	5,868,674	02/09/99	Glowinski et al.	600	410	11/22/96
✓	DE	5,879,347	03/09/99	Saadat	606	28	04/25/97

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DF	5,891,134	04/06/99	Goble et al.	606	27	09/24/96
DG	5,928,145	07/27/99	Ocali et al.	600	410	04/25/96
DH	5,938,609	08/17/99	Pomeranz	600	439	08/01/97
DI	5,938,692	08/17/99	Rudie	607	101	03/26/96
DJ	5,964,705	10/12/99	Truwit et al.	600	423	08/22/97
DL	6,004,269	12/21/99	Crowley et al.	600	439	06/07/95
DM	6,011,995	01/04/00	Guglielmi et al.	607	99	12/29/97
DN	6,026,316	02/15/00	Kucharczyk et al.	600	420	05/15/97
DO	6,031,375	02/29/00	Atalar et al.	324	307	11/26/96

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DR	WO 98/52461	11/26/98	PCT				X
DS	JP 6[1994]-70902	03/15/94	Japan			X	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages Etc.)**

DT	Atalar et al.; "High Resolution Intravascular MRI and MRS using a Catheter Receiver Coil," Magnetic Resonance in Medicine, 36:596-605 (1996)
DU	Bauernfeind et al.; "Chronic Nonparoxysmal Sinus Tachycardia in Otherwise Healthy Persons", Ann. Intern. Med. 91 : 702-710 (1979)
DV	Chen et al.; "Right Atrial Focal Atrial Fibrillation: Electrophysiologic Characteristics and Radiofrequency Catheter Ablation," J. Cardiovasc. Electrophysiol. 10: 328-335 (1999)
DW	Chorro et al.; "Transcatheter Ablation of the Sinus Node in Dogs Using High -Frequency Current", European Heart J. 11: 82-89 (1990)
DX	Cox et al.; "Modification of the Maze Procedure for Atrial Flutter and Fibrillation, II: Surgical Technique of the Maze II Procedure", J. Thorac. Cardiovasc. Surg. 110: 485-495 (1995)
DY	Edelman et al.; "Magnetic Resonance Imaging," NEJM. 328: 708-716 (1993)
EA	Garrey, W. E., "The Nature of Fibrillatory contraction of the Heart : Its Relation to Tissues mass and Form," Am. J. Physiol. 33: 397-414 (1914)
EB	Garwood et al.; "Magnetic Resonance Imaging with Adiabatic Using a Single Surface Coil for RF Transmission and Signal Detection," Magnetic Resonance in Medicine 9: 25-34 (1989)
EC	Haines et al.; "Primary Atrial Fibrillation Ablation (PAFA) In a Chronic Atrial Fibrillation model," Circulation, 92(8): 1-265 (1995)

Form PTO-1449		Sheet Page 1 of	
<b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional)	
		SUW-007.01(22135-701)	
		Applicant	
		H.R. Halperin et al.	
		Filing Date	
		October 29, 1999	
		Group Art Unit	
		3737	
<b>U.S. PATENT DOCUMENTS</b>			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME
<b>FOREIGN PATENT DOCUMENTS</b>			
	DOCUMENT NUMBER	DATE	COUNTRY
FD	EP 0 673 621 A1	27.09.95	Europe
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages Etc.)</i>			
EXAMINER	DATE CONSIDERED		
	18-15-02		
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
D1	5,370,644	12/06/1994	Langberg	606	33	7/16/1993
D2	6,027,500	2/22/2000	Buckles et al	606	34	5/05/1998

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
D3	WO 00/25672 A	5/11/2000	PCT			N/A	

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages Etc.)*

D4	International Search Report, PCT Application No. PCT/US 02/11984, mailed August 8, 2002						

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DATE CONSIDERED

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Form PTO-1449		Docket Number (Optional) SUW-007.01(22135-701)		Application Number 09/428,990		
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)		Applicant H.R. Halperin et al.		Group Art Unit 3737		
		Filing Date October 29, 1999				
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
msc	5,833,608	11/10/98	Acker, D.	600	409	03/31/97
↓	5,662,108	09/02/97	Budd et al	128	642	04/12/95
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages Etc.)						
EXAMINER	Luna S. Eadeen			DATE CONSIDERED 8-8-03		
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	09/428,990
Filing Date	October 29, 1999
First Named Inventor	Halperin, Henry
Art Unit	3737
Examiner Name	Qaderi, Runa S.
Attorney Docket Number	SUV-007.01

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	FX	JP 09094238	04/08/1997	Katsuya, S.		X abstr.
	FY	WO 00/10456	03/02/2000	Gilboa, P.		
	FZ	WO 02/083016	10/24/2002			
	GA	WO 00/25672	05/11/2000			

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	GB	KARMARKAR, P.V., An Active MRI Intramyocardial Injection Catheter, Proc. Intl. Soc. Mag. Reson. Med., 11:311 (2003).	
	GC	KUMAR, A., MR Imaging with a Biopsy Needle, Proc. Intl. Soc. Mag. Reson. Med. 9:2148 (2001).	
	GD	SUSIL, R.C., Multifunctional interventional devices for MRI: a combined electrophysiology/MRI catheter, Mag. Reson. Med., 47: 594-600 (2002).	
	GE	QUICK, H.H., Endourethral MRI, Intl. Soc. Mag. Reson. Med., 1:142 (2000).	
	GF	International Search Report, PCT Application No. PCT/US 03/17085, mailed September 29, 2003.	

Examiner  
SignatureDate  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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✓	AA	5,769,800	6/23/98	Gelfand et al.	601	151	3/15/95
	AB	6,129,670	10/10/2000	Burdette et al.	600	427	5/29/1998
✓	AC	6,171,241	1/9/01	McVeigh et al.	600	410	6/11/98
✓	AD	6,188,219	2/13/01	Reeder et al.	324	307	1/22/99
✓	AE	6,263,229	7/17/01	Atalar et al.	600	423	11/13/98
✓	AF	6,284,971	9/4/01	Atalar et al.	174	36	11/24/99
	AG	6,332,089	12/18/2001	Acker et al.	600	424	9/18/1998
✓	AH	6,390,996	5/21/02	Halperin et al.	601	41	11/9/98
✓	AI	6,408,202	6/18/02	Lima et al.	600	423	11/3/99
	AJ	6,549,800	4/15/03	Atalar et al.	600	423	4/14/00
	AK	6,593,884	7/15/2003	Gilboa et al.	342	448	1/21/2000
	AL	6,606,513	8/12/2003	Lardo et al.	600	411	2/1/01
	AM	6,628,980	9/30/2003	Atalar et al.	600	423	3/26/01
	AN	6,633,780	10/14/03	Berger et al.	607	129	6/5/00
	AO	6,654,628	11/25/03	Silber et al.	600	410	11/3/2000
	AP	6,675,033	1/6/04	Lardo et al.	600	410	3/24/00
	AQ	6,701,176	3/2/2004	Halperin et al.	600	411	10/29/1999
	AR	20020097050	7/25/02	Kellman et al.	324	309	12/11/00
	AS	20020040185	4/4/02	Atalar et al.	600	423	4/2/01
	AT	20020055678	5/09/2002	Scott et al.	600	423	7/12/2001
	AU	20020095197	7/18/02	Lardo et al.	607	89	7/11/01
	AV	20020095197	07/18/02	Lardo et al.	607	89	07/11/01
	AW	20020167315	11/14/02	Kellman et al.	324	307	4/3/01
	AX	20020161421	10/31/02	Lee et al.	607	116	11/20/01

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<input checked="" type="checkbox"/>	AY	20020192688	12/19/02	Yang et al.	435	6	4/4/02
<input checked="" type="checkbox"/>	AZ	2002017771	11/28/02	Guttman et al.	600	410	2/14/02
	BA	20030028094	2/6/03	Kumar et al.	600	410	4/24/02
	BB	20030028095	2/6/03	Tulley et al.	600	422	4/11/02
	BC	20030050557	3/13/2003	Susil et al.	600	424	4/15/2002
	BD	20030199755	10/23/2003	Halperin et al.	600	411	4/28/2003
	BE	20040024434	2/5/04	Yang et al.	607	96	4/1/03
	BF	20040015079	1/22/04	Berger et al.	600	437	3/11/03

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<input checked="" type="checkbox"/>	BG	EP 0 557 127 A2	8/25/1993	European Pat. Off.			
	BH	EP 0 466 424 A1	1/15/92	European Pat. Off.			

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